

**Amendments to the Specification:**

Please add, beginning at page 3, between lines 12 and 13, the following new paragraph (or section):

Therefore in one aspect, the present invention provides a method of producing a material for use as a filter to purify sewage, comprising: (a) providing pre-sorted plastic material wastes comprising substantially polyethylene or polypropylene; (b) adding between about 0.01 and 5% by weight of a peroxide, with respect to the total weight of the plastic material, to the pre-sorted plastic material wastes; and (c) forming the plastic material wastes into granular material, wherein an addition of. More typically, the weight of the peroxide added is between 0.1 and 0.5% of the total weight of the plastic material. It is preferred that the peroxide added to the plastic material wastes be in ground form.